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	Application No.	Applicant(s)	
Notice of Allowability	10/655,983	ASTAKHOV ET AL.	
	Examiner	Art Unit	
	Eric A. Gates	3722	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS I nerewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED in 5) or other appropriate comm RIGHTS. This application is	n this application. If not include unication will be mailed in due	ed course. THIS
1. $igotimes$ This communication is responsive to <u>Applicant's amendr</u>	ment filed 3 November 2006.		
2. The allowed claim(s) is/are <u>2-10,13-21 and 25</u> .			
a) Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents hat 2. Certified copies of the priority documents hat 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which go 5. CORRECTED DRAWINGS (as "replacement sheets") m (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examine Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	ve been received. ve been received in Application documents have been received. E" of this communication to file IMENT of this application. Immitted. Note the attached EX ives reason(s) why the oath of the submitted. Erson's Patent Drawing Reviewer's Amendment / Comment of the 1.84(c)) should be written on the series are should be written are should be written on the series are should be written on the series are should be written are shoul	on No d in this national stage applicate a reply complying with the recommendation is deficient. W (PTO-948) attached r in the Office action of the drawings in the front (not the	quirements IOTICE OF
 DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN 			Note the
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Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)	5. Notice of Ir	nformal Patent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948	6. Interview S	Summary (PTO-413),	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 11/3/06 		/Mail Date :Amendment/Comment	
4. ☐ Examiner's Comment Regarding Requirement for Deposi of Biological Material	9. 🗌 Other	Statement of Reasons for Allo MONICA CARTER ERVISORY PATENT EXAM	
SUPERVISORY FAILERS			

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DETAILED ACTION

This office action is in response to Applicant's amendment filed on 3 November
 2006.

Allowable Subject Matter

- 2. Claims 2-10, 13-21, and 25 are allowed. Claims 2, 14, and 17 are the independent claims.
- 3. The following is an examiner's statement of reasons for allowance:

The closest prior art of record is Japanese Patent JP 357083313A to Suzuki et al., which was applied to the claims in the office action mailed 2 August 2006. Suffice it to say, the patent to Suzuki et al. does not disclose "wherein the crossover port is primarily formed in the tubular shank" as claimed in independent claim 2, "wherein the area of the outlet passage is sufficiently small in relation to the area of the relief passage so that over ten percent of the drilling fluid exits the end clearance volume through the relief passage" as claimed in independent claim 14, or "wherein the cross-sectional area of the outlet passage is less than fifty percent of a longitudinal cross-sectional area of the bottom space taken along the hole axis, so that the drilling fluid exiting the outlet passage into the elongate fluid return path initially forms a maximum angle beta, relative to the hole being drilled when viewed radially, which is sufficiently large to effectively cool the tip cutting edge without stagnation" as claimed in

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independent claim 17, and as such does not anticipate the instant invention as disclosed in independent claims 2, 14, and 17.

Furthermore, there is no combinable teaching in the prior art of record that would reasonably motivate one having ordinary skill in the art to so modify the teachings of Suzuki et al., and thus, for at least the foregoing reasoning, the prior art of record does not render obvious the present invention as set forth in independent claims 2, 14, and 17.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric A. Gates whose telephone number is 571-272-5498. The examiner can normally be reached on Monday-Thursday 7:45-6:15.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Monica Carter can be reached on 571-272-4475. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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EAG

17 January 2007

MONICA CARTER

SUPERVISORY PATENT EXAMINER